PB-503 Perfect Binder
INSTALLATION MANUAL

Applied Machine: C8000/C7000/C7000P/C6000/C70hc/1200/1200P/1051
COLOR PRESS: 80/(71ppm/71ppm)/(70ppm/70ppm)/(60ppm/60ppm) MFP: 120ppm/105ppm-2
Product code: A1RF/A1DU/A204/A1DV/A205/A0G6/A0GA/A0G9

I. Contents

[MFP 120ppm(105ppm-2) Series]
[1200/1200P/1051]

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- PB-503+RU-506+MFP 120ppm(105ppm-2) .....E-6 to 7 page
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[C8000]

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[C7000/C7000P/C6000/C70hc]

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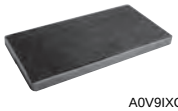
•Common operations after installing PB-503 .....E-16 to 19 page

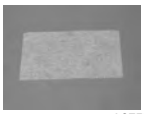
Note:
Lifting the machine in an awkward position or transporting it in a poorly balanced position could result in personal injury. When transporting the machine, assign an adequate number of persons to the job and ensure that each person can take a good position of not being excessively loaded. (mass: approx. 274 kg)

II.Accessory parts

Note:1
Prepare glue pellets (GC-501) on your own.

Note:2
It will take about 20 minutes to melt a pack of glue pellets.

No.	Name	Shape	Q'ty
1.	Installation plate 1	15AQIXC001CA	1
2.	Installation plate 2	A075IXC002SA	1
3.	Installation plate 3	A075IXC002CA	1
4.	Installation plate 4	A075IXC004SA	1
5.	Installation plate 5	A0V9IXC033CA	1
6.	Paper path guide (used only when installing the FD-503.)	A075IXC006SA	1
7.	Deodorant unit	A0V9IXC007CA	1
8.	Filter /A	 A0V9IXC008CA	1

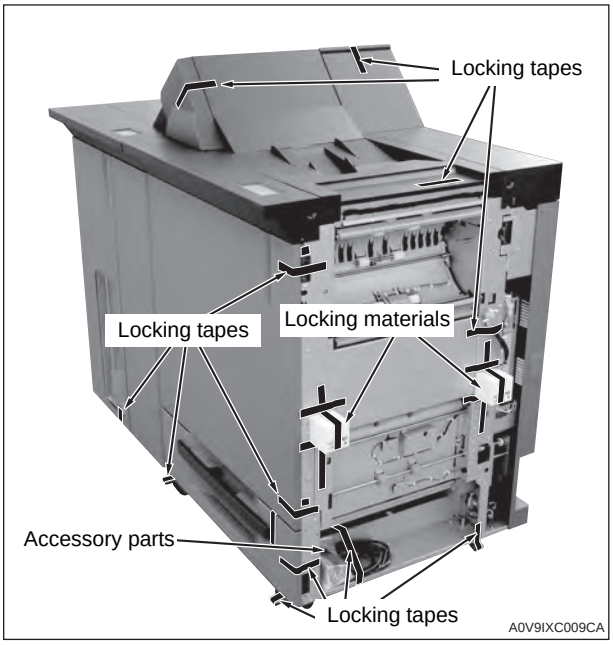
No.	Name	Shape	Q'ty
9.	Filter /B	 A075IXC009SA	2
10.	Power cord	A075IXC014SA	1
11.	Processing cover/1	A075IXC012SA	1
12.	TP screw M4x6		10
13.	TP screw (black) M4x6		3
14.	TP screw M4x10		2
15.	Installation manual		1

III. Preparation Prior to Installation

1. Visually inspect the unit.
2. Remove the locking tapes and locking materials.
3. Remove the accessory parts.

Note:

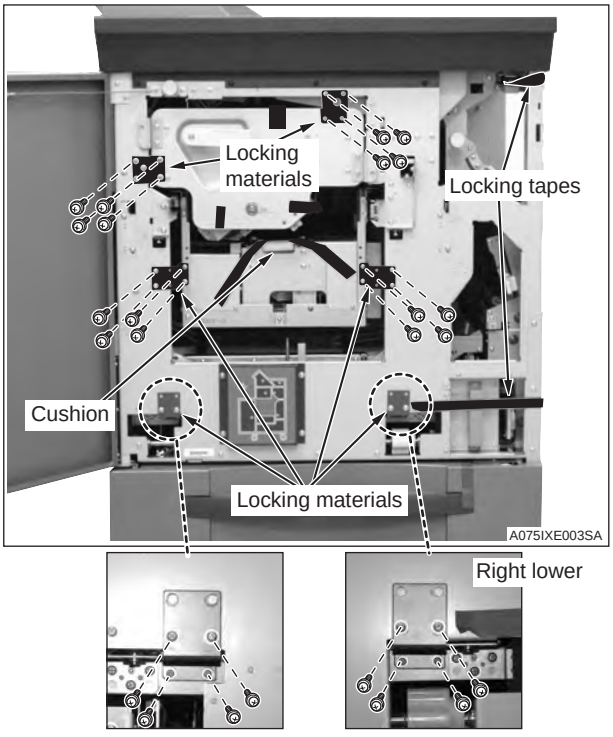
1 caster locking tape is in the rear. (1 place)



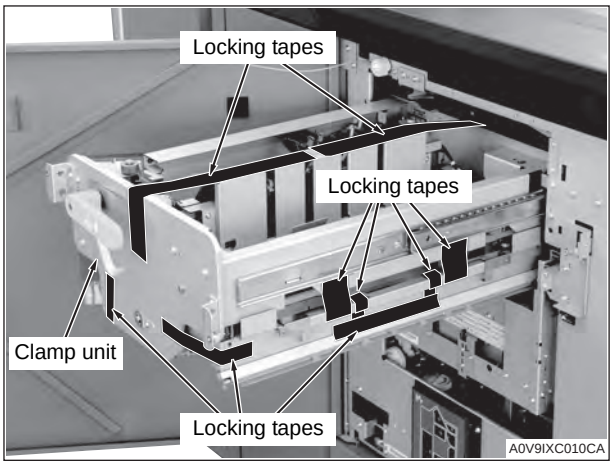
4. Open the front door of the PB-503, and remove six locking materials (24 screws), the locking tapes and the cushion.

Note:

There is a plastic sheet under the cushion, so be sure to remove it.



5. Pull out the clamp unit and remove the locking tapes.

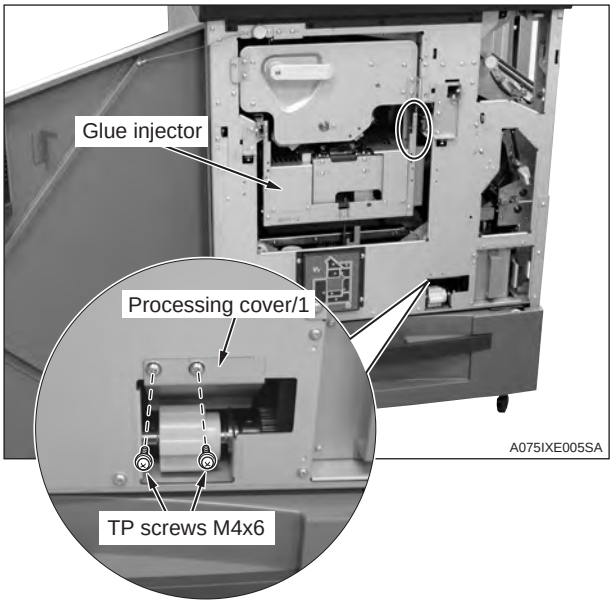


6. Push back the glue injector.

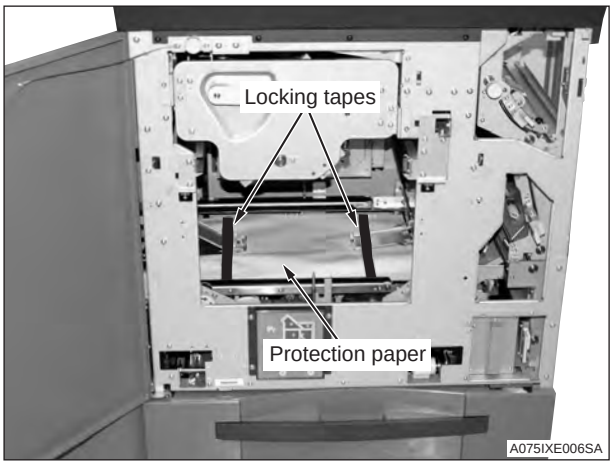
Note:

Push the upper right part of the glue injector (circle marked part).

7. Using the screw holes in the place the lower-right locking material was removed, install the processing cover/1 with two screws (TP screw M4x6: 2 pcs.)

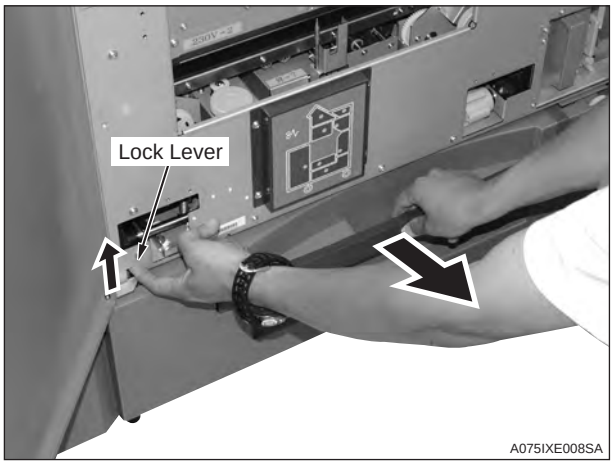


8. Remove the two locking tapes and the protection paper.

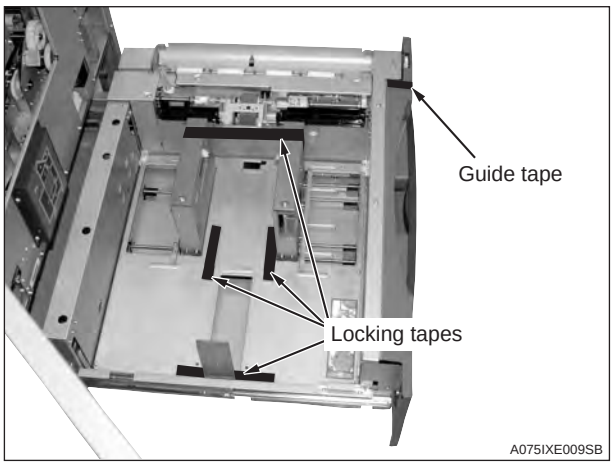


9. Remove the locking tape on the cover tray.

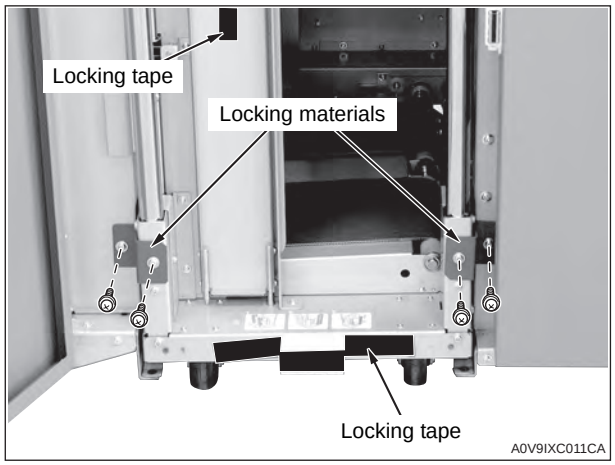
(1) While pushing up the lock lever, pull out the cover tray.



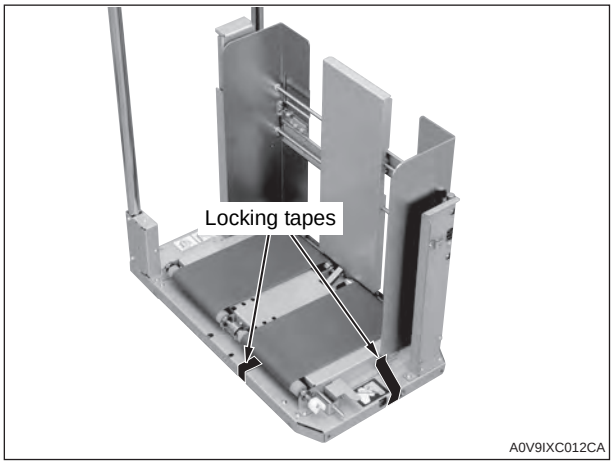
(2) Remove the locking tapes inside the cover tray. Then remove the guide tape.



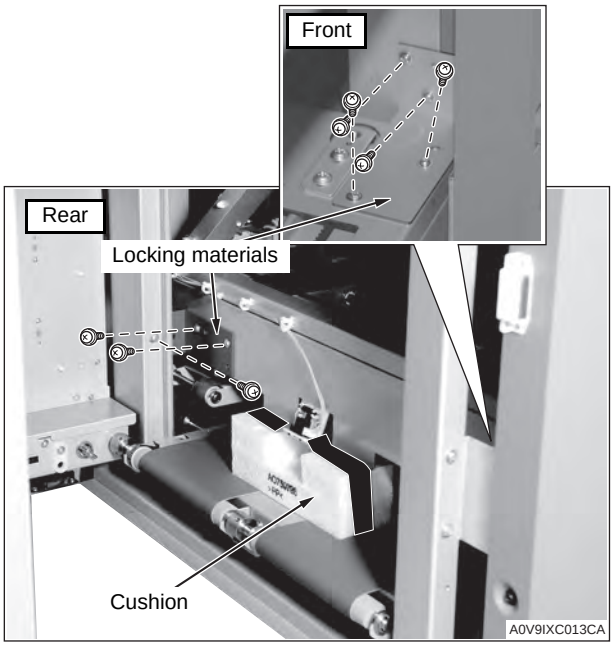
10. Open the door of the book receptacle and remove 2 locking tapes and 2 locking materials (4 screws) from the handcart.



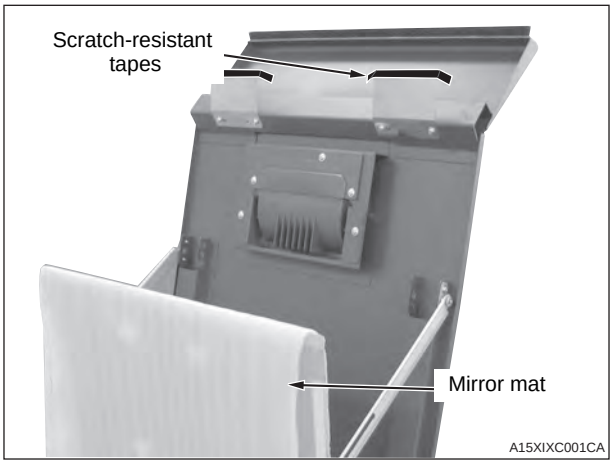
11. Pull out the handcart and remove 2 locking tapes.



12. Remove 2 locking materials (7 screws), raise the lifter up to the position where it stops, and remove the cushion.



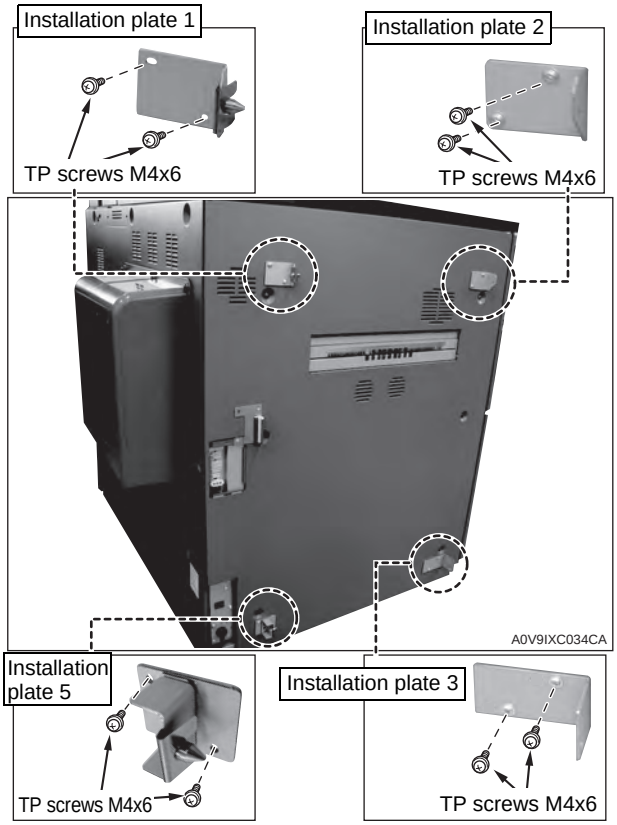
13. Open the intermediate conveyance door and then remove 2 scratch-resistant tapes and the mirror mat.



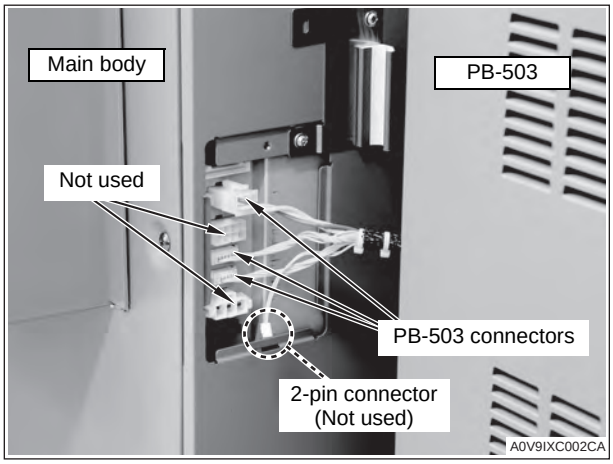
IV. Installation Procedure for each option

Installation procedure for [PB-503 + MFP 105ppm-2]

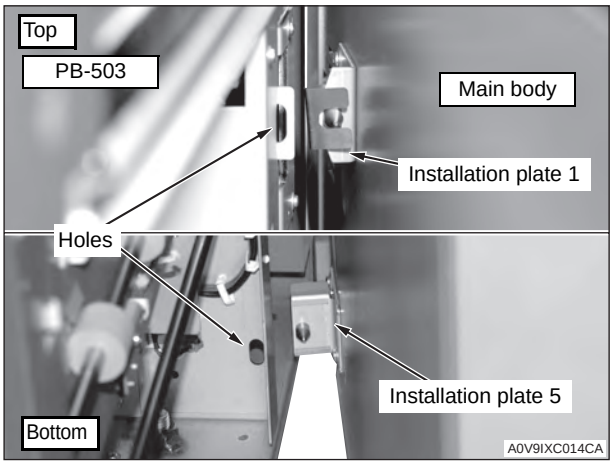
1. Turn the machine's Sub and Main power switches OFF, and unplug the power cord.
2. Install the Installation plate 1, the Installation plate 2, the Installation plate 3, and the Installation plate 5 on the left side of the main body as below. (TP screw M4x6: 8 pcs.)



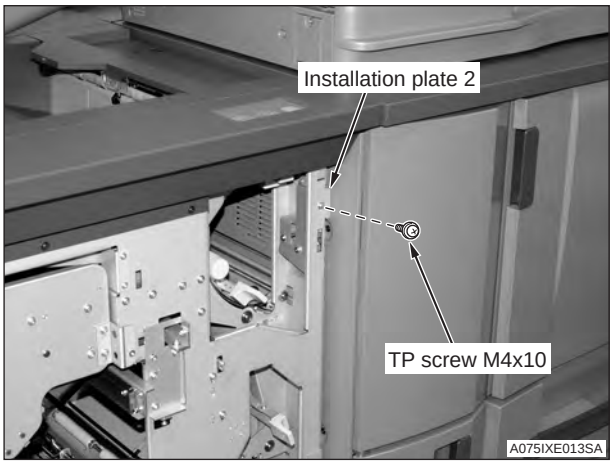
3. Install the PB-503 to the main body.
   (1) Connect the three connector plugs of the PB-503 to the connector jacks on the machine. (One small 2pin connector will not be used.)



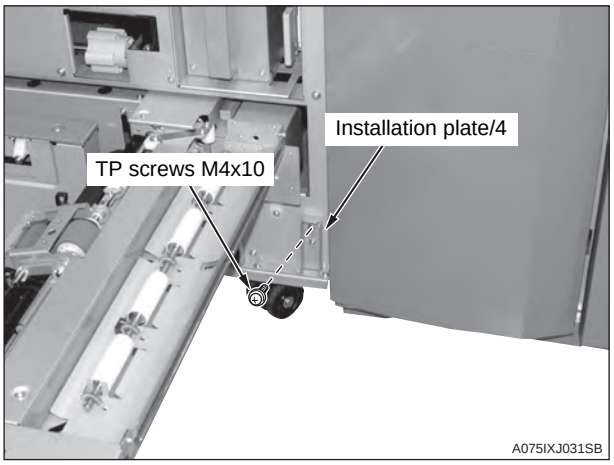
(2) Align the top hole with the Installation plate 1, and the bottom hole with the Installation plate 5, and slide them to the back.



(3) Secure the PB-503 onto the Installation plate 2 with a screw. (TP screw M4x10: 1 pc.)



(4) Pull out the cover tray, and install the Installation plate 4. (TP screw M4x10: 1pc.)



Note:

In case those screw holes heights do not match to fix the installation plate 2 and the installation plate 4 by screw, adjust the height of PB-503 casters (4 parts) to mach those screw holes.

Every caster has ratchet mechanism.

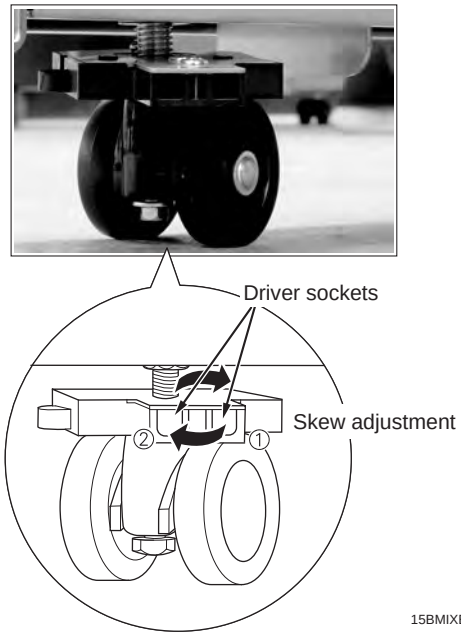
It goes up with reciprocating the driver into the whole 1, and it goes down with reciprocating the driver into the whole 2.

Be sure not to go it up too much, otherwise the bolt would come off. (max. ±5mm)

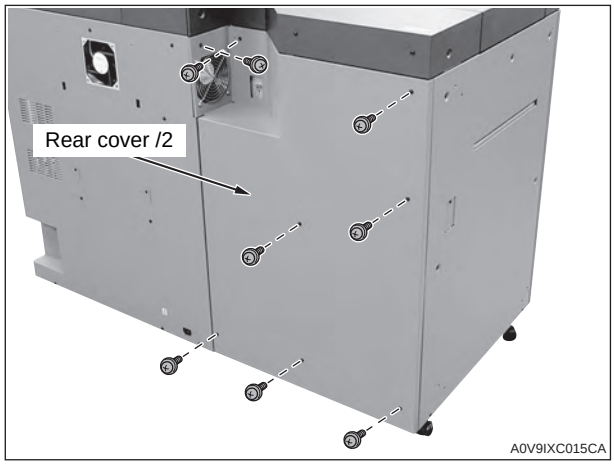
(Be sure the caster is contacting installation surface, otherwise the ratchet will not work.)

After the adjustment, be sure to put the ratchet part into the machine.

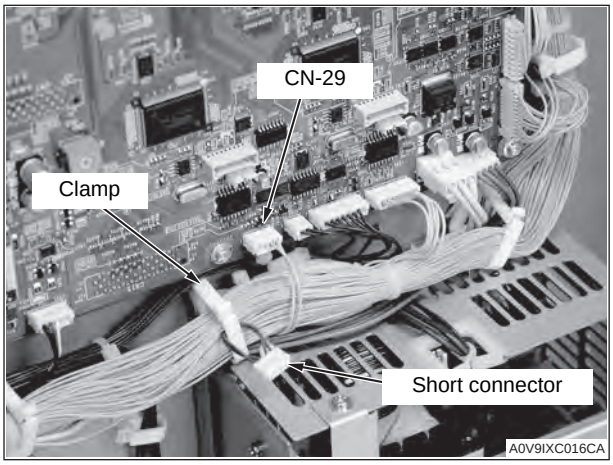
(Insert the driver into the hole on the left hand and rotate it to the left. The height is changed by rotating without inserting the driver.)



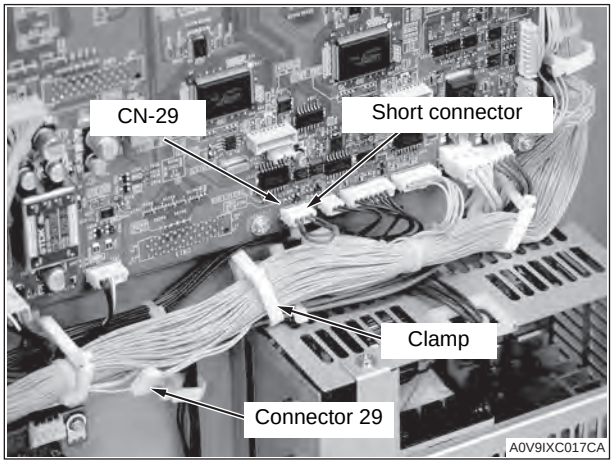
4. Remove the rear cover /2 of the book receptacle (8 screws).



5. Remove the CN-29 connector from the control board and remove the short connector from the clamp.



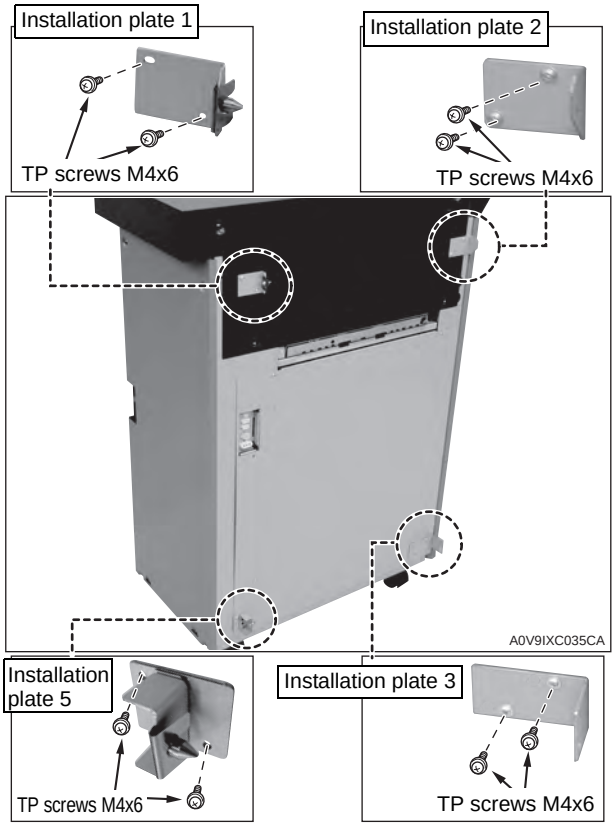
6. Connect the short connector to the CN-29, and secure the connector 29 with the clamp.



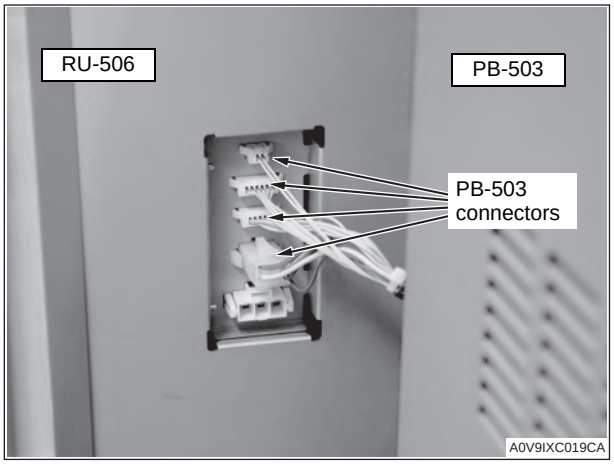
7. Reinstall the rear cover /2 of the book receptacle (8 screws).
8. Perform the operations described in "V.Common operations after installing PB-503", page 16 to 19.

Installation procedure for
[PB-503 + RU-506
+MFP 120ppm(105ppm-2) series]

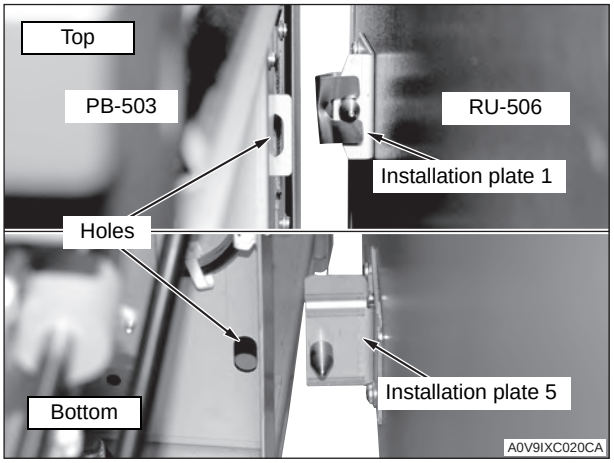
1. Turn the machine's Sub and Main power switches OFF, and unplug the power cord.
2. Install the Installation plate 1, the Installation plate 2, the Installation plate 3, and the Installation plate 5 on the left side of RU-506 as below. (TP screw M4x6: 8 pcs.)



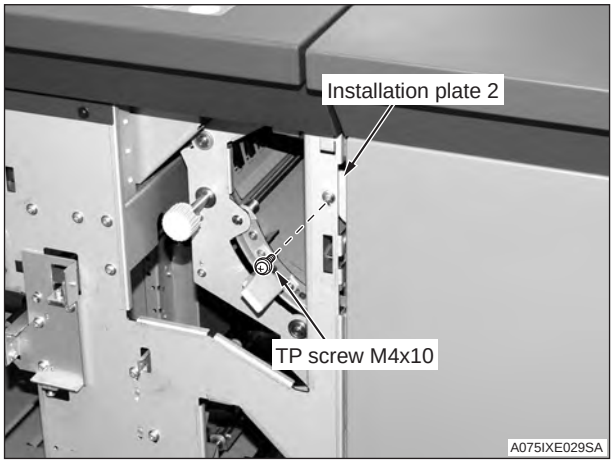
3. Install the PB-503 to the RU-506.
   (1) Connect the four connector plugs of the PB-503 to the connector jacks on the RU-506.



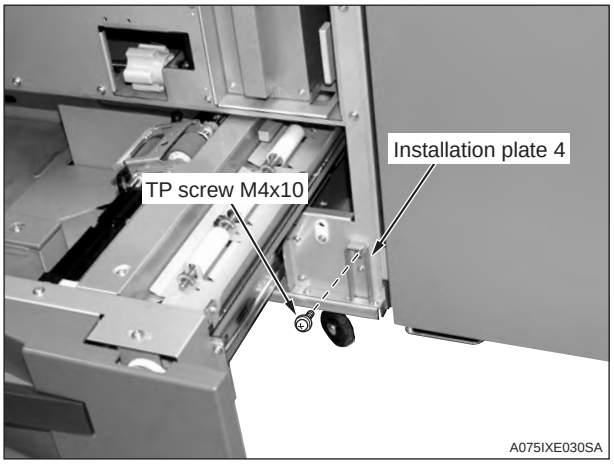
(2) Align the top hole with the Installation plate 1, and the bottom hole with the Installation plate 5, and slide them to the back.



(3) Secure the PB-503 onto the Installation plate 2 with a screw. (TP screw M4x10: 1 pc.)



(4) Pull out the cover tray, and install the Installation plate 4. (TP screw M4x10: 1pc.)



Note:

In case those screw holes heights do not match to fix the installation plate 2 and the installation plate 4 by screw, adjust the height of PB-503 casters (4 parts) to mach those screw holes.

Every caster has ratchet mechanism.

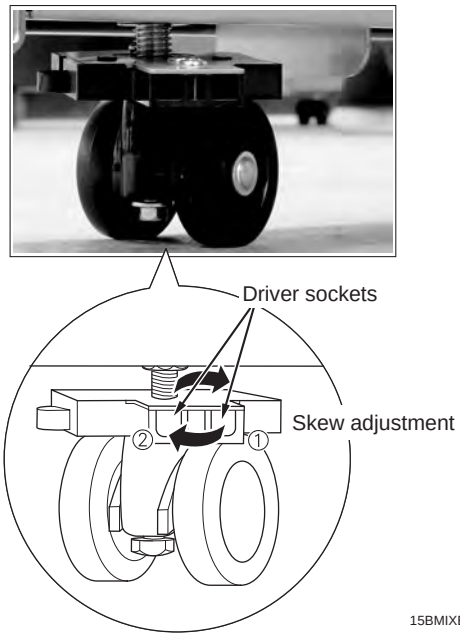
It goes up with reciprocating the driver into the whole 1, and it goes down with reciprocating the driver into the whole 2.

Be sure not to go it up too much, otherwise the bolt would come off. (max. ±5mm)

(Be sure the caster is contacting installation surface, otherwise the ratchet will not work.)

After the adjustment, be sure to put the ratchet part into the machine.

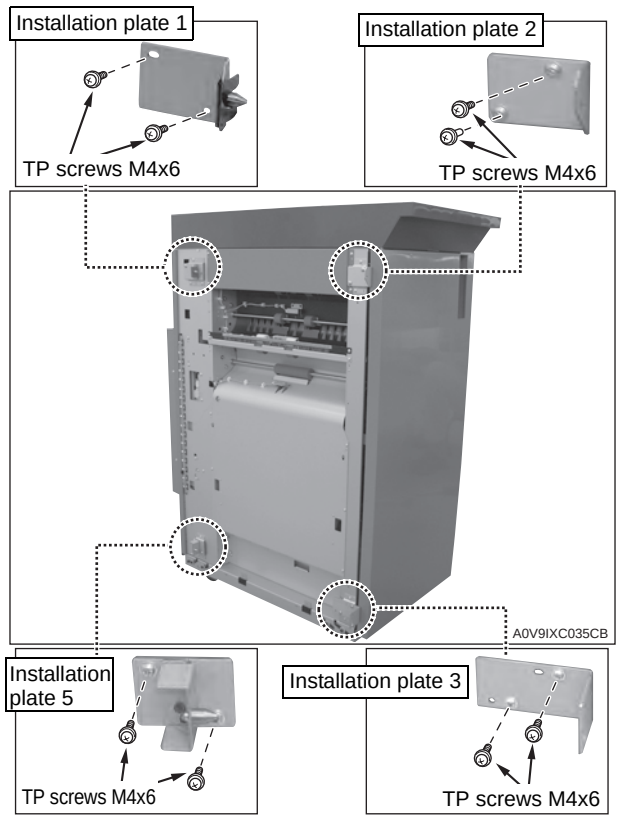
(Insert the driver into the hole on the left hand and rotate it to the left. The height is changed by rotating without inserting the driver.)



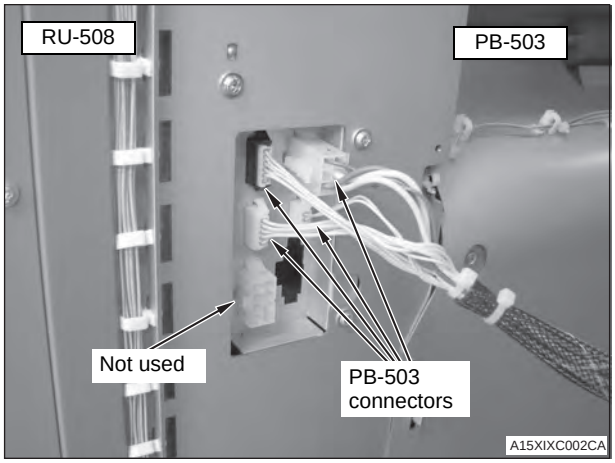
4. Perform the operations described in "V.Common operations after installing PB-503", page 16 to 19.

Installation procedure for [PB-503 + RU-508 + EF-101 + C8000]

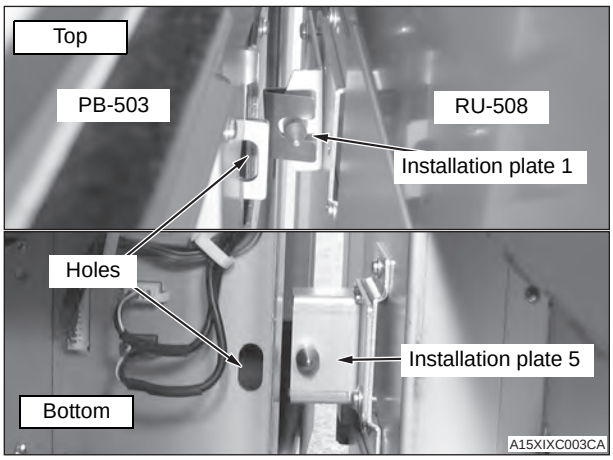
1. Turn the machine's Sub and Main power switches OFF, and unplug the power cord.
2. Install the Installation plate 1, the Installation plate 2, the Installation plate 3, and the Installation plate 5 on the left side of the RU-508 as below. (TP screw M4x6: 8 pcs.)



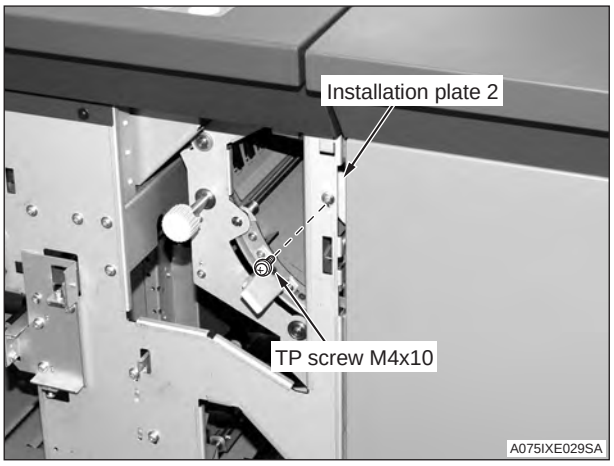
3. Install the PB-503 to the RU-508.
   (1) Connect the four connector jacks of the PB-503 to the connector plugs on the RU-508.



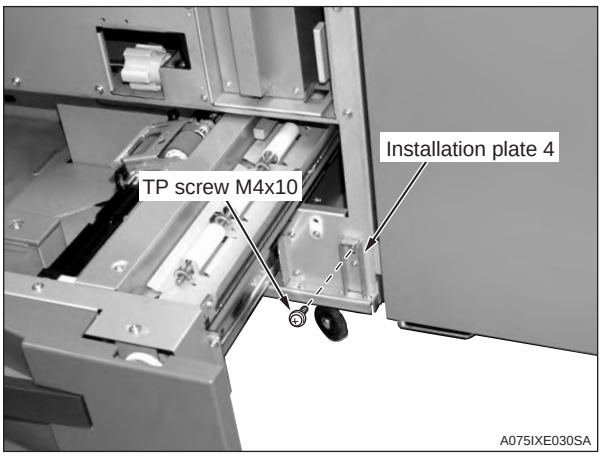
   (2) Align the top hole with the Installation plate 1, and the bottom hole with the Installation plate 5, and slide them to the back.



   (3) Secure the PB-503 onto the Installation plate 2 with a screw. (TP screw M4x10: 1 pc.)



   (4) Pull out the cover tray, and install the Installation plate 4. (TP screw M4x10: 1pc.)



Note:

In case those screw holes heights do not match to fix the installation plate 2 and the installation plate 4 by screw, adjust the height of PB-503 casters (4 parts) to mach those screw holes.

Every caster has ratchet mechanism.

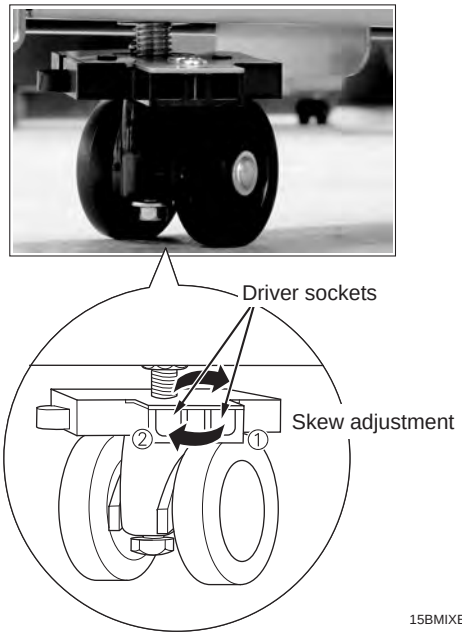
It goes up with reciprocating the driver into the whole 1, and it goes down with reciprocating the driver into the whole 2.

Be sure not to go it up too much, otherwise the bolt would come off. (max. ±5mm)

(Be sure the caster is contacting installation surface, otherwise the ratchet will not work.)

After the adjustment, be sure to put the ratchet part into the machine.

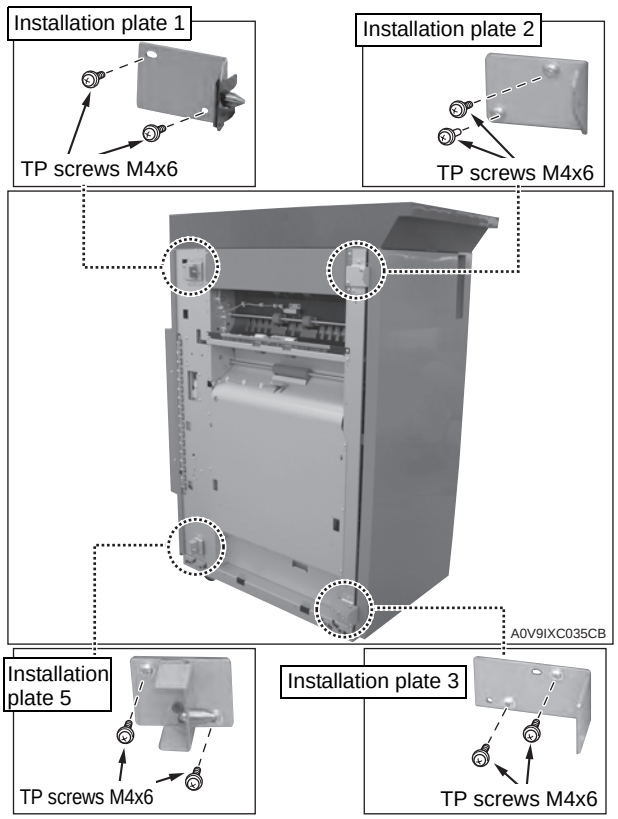
(Insert the driver into the hole on the left hand and rotate it to the left. The height is changed by rotating without inserting the driver.)



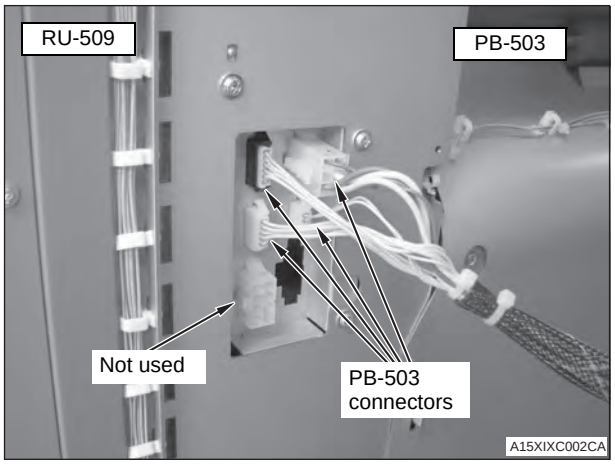
4. Perform the operations described in "V.Common operations after installing PB-503", page 16 to 19.

Installation procedure for [PB-503 + RU-509 + C7000/C7000P/C6000/C70hc]

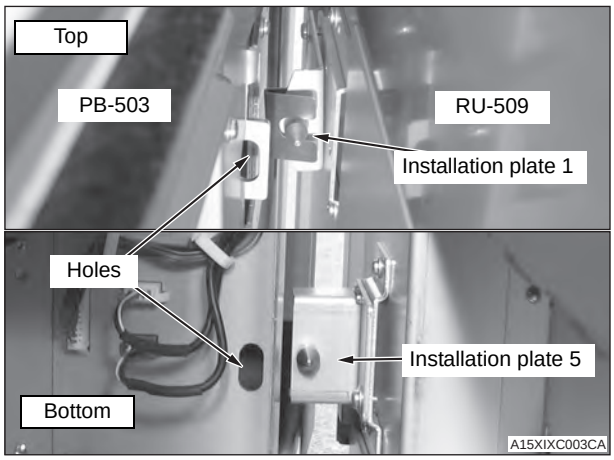
1. Turn the machine's Sub and Main power switches OFF, and unplug the power cord.
2. Install the Installation plate 1, the Installation plate 2, the Installation plate 3, and the Installation plate 5 on the left side of the RU-509 as below. (TP screw M4x6: 8 pcs.)



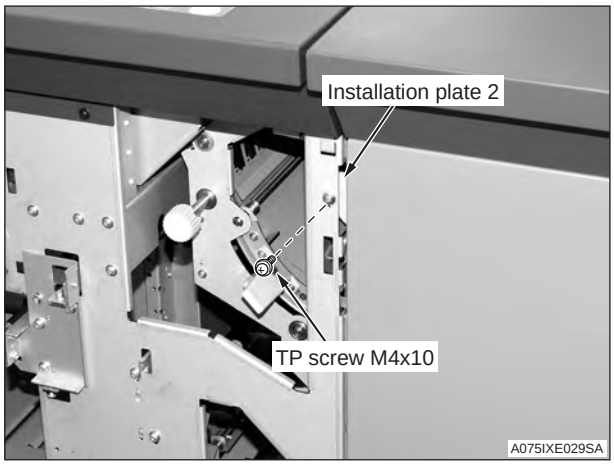
3. Install the PB-503 to the RU-509.
   (1) Connect the four connector jacks of the PB-503 to the connector plugs on the RU-509.



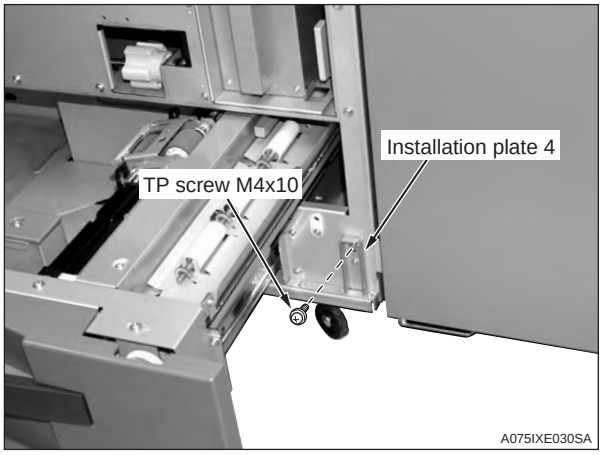
(2) Align the top hole with the Installation plate 1, and the bottom hole with the Installation plate 5, and slide them to the back.



(3) Secure the PB-503 onto the Installation plate 2 with a screw. (TP screw M4x10: 1 pc.)



(4) Pull out the cover tray, and install the Installation plate 4. (TP screw M4x10: 1pc.)



Note:

In case those screw holes heights do not match to fix the installation plate 2 and the installation plate 4 by screw, adjust the height of PB-503 casters (4 parts) to mach those screw holes.

Every caster has ratchet mechanism.

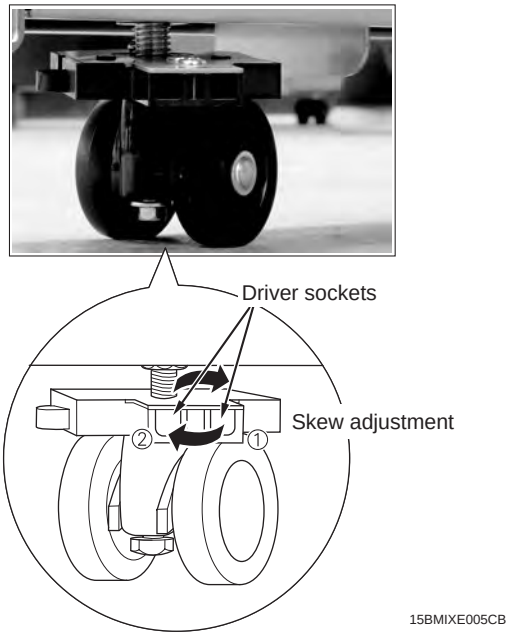
It goes up with reciprocating the driver into the whole 1, and it goes down with reciprocating the driver into the whole 2.

Be sure not to go it up too much, otherwise the bolt would come off. (max. ±5mm)

(Be sure the caster is contacting installation surface, otherwise the ratchet will not work.)

After the adjustment, be sure to put the ratchet part into the machine.

(Insert the driver into the hole on the left hand and rotate it to the left. The height is changed by rotating without inserting the driver.)

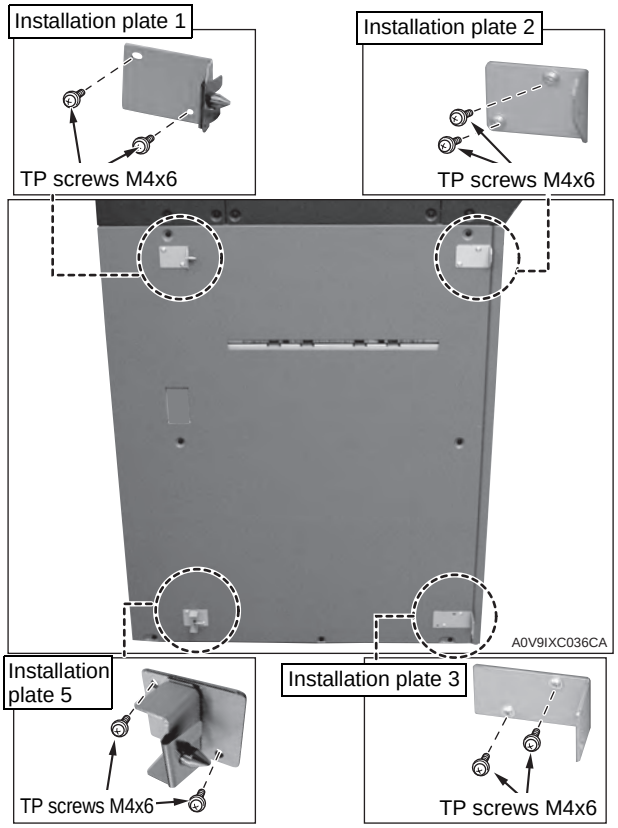


4. Perform the operations described in "V.Common operations after installing PB-503", page 16 to 19

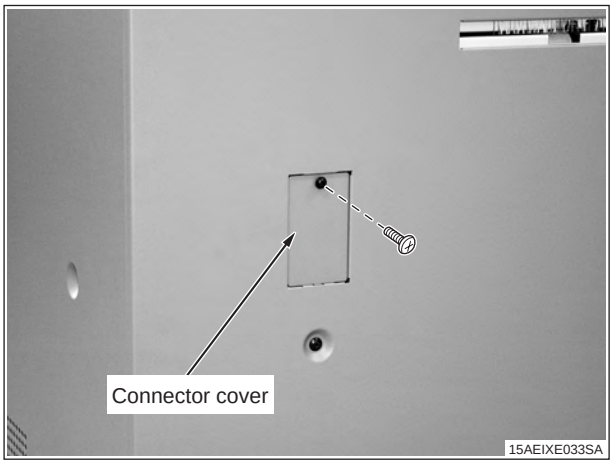
Installation procedure for
[PB-503 + SD-506 + RU-506
+MFP 120ppm(105ppm-2) series]
[PB-503 + SD-506 + RU-508+EF-101+C8000]
[PB-503 + SD-506 + RU-509
+C7000/C7000P/C6000/C70hc]

* For the installation procedure for the RU-506/508/509, see the RU-506/508/509 installation manual.

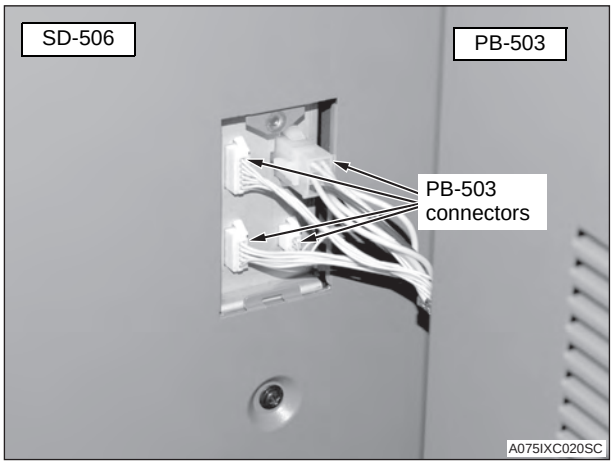
1. Turn the machine's Sub and Main power switches OFF, and unplug the power cord.
2. Install the Installation plate 1, the Installation plate 2, the Installation plate 3, and the Installation plate 5 on the left side of the SD-506 as below. (TP screw M4x6: 8 pcs.)



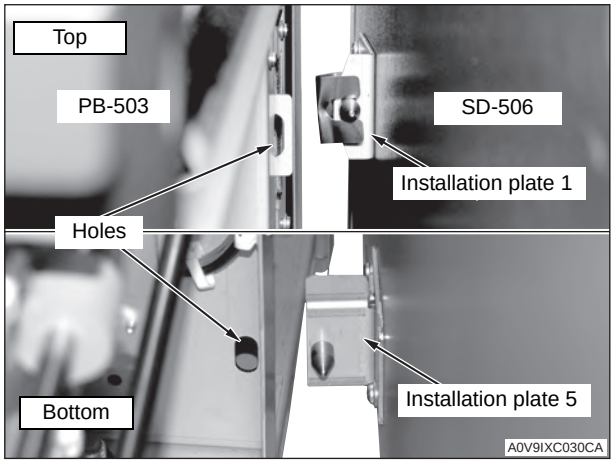
3. Remove the connector cover on the left side of the SD-506 (1 screw).



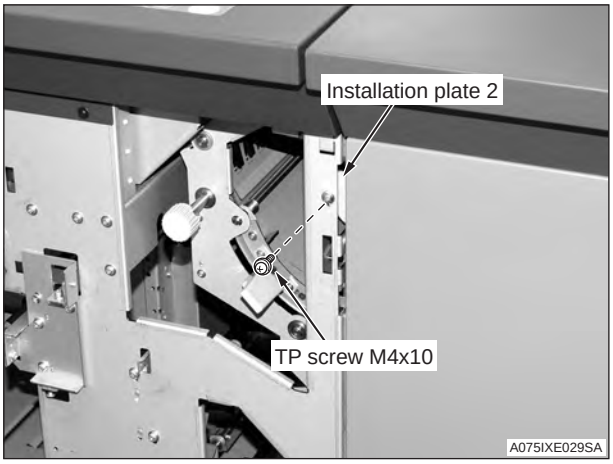
4. Install the PB-503 to the SD-506.
   (1) Connect the four connector jacks of the PB-503 to the connector plugs on the SD-506.



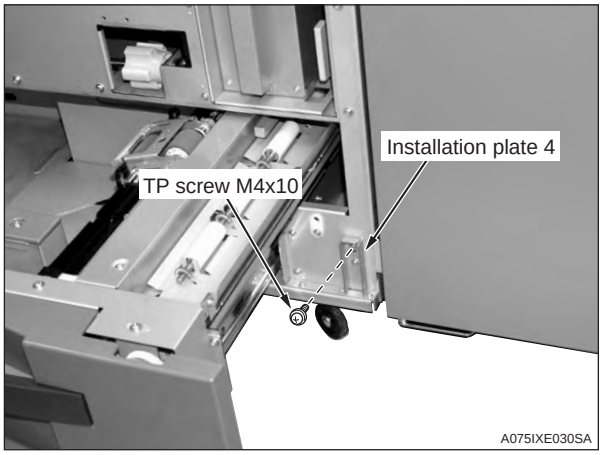
   (2) Align the top hole with the Installation plate 1, and the bottom hole with the Installation plate 5, and slide them to the back.



   (3) Secure the PB-503 onto the Installation plate 2 with a screw. (TP screw M4x10: 1 pc.)



(4) Pull out the cover tray, and install the Installation plate 4. (TP screw M4x10: 1pc.)



Note:

In case those screw holes heights do not match to fix the installation plate 2 and the installation plate 4 by screw, adjust the height of PB-503 casters (4 parts) to mach those screw holes.

Every caster has ratchet mechanism.

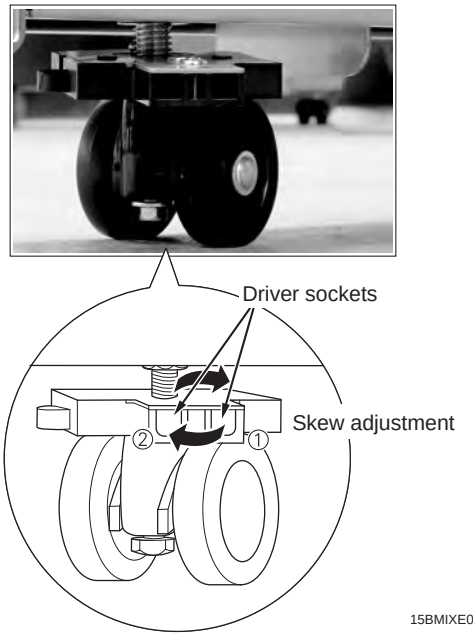
It goes up with reciprocating the driver into the whole 1, and it goes down with reciprocating the driver into the whole 2.

Be sure not to go it up too much, otherwise the bolt would come off. (max. ±5mm)

(Be sure the caster is contacting installation surface, otherwise the ratchet will not work.)

After the adjustment, be sure to put the ratchet part into the machine.

(Insert the driver into the hole on the left hand and rotate it to the left. The height is changed by rotating without inserting the driver.)

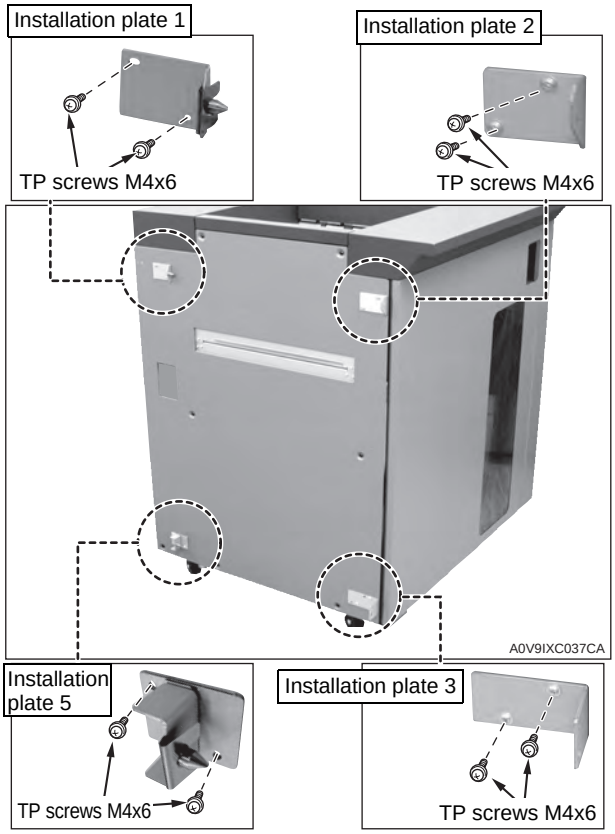


5. Perform the operations described in "V.Common operations after installing PB-503", page 16 to 19.

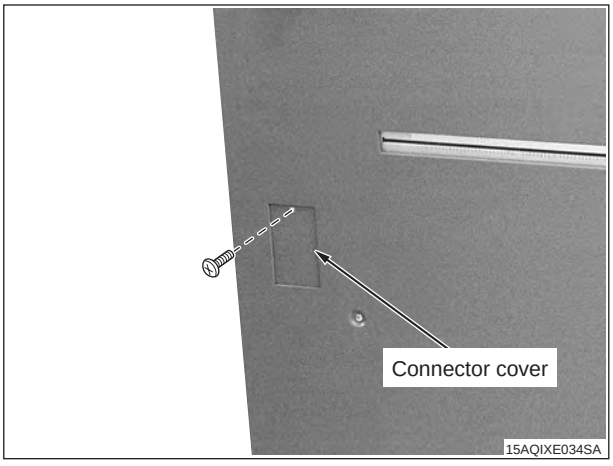
Installation procedure for
[PB-503 + LS-505 + RU-506
+MFP 120ppm(105ppm-2) series]
[PB-503 + LS-505 + RU-508 + EF-101 + C8000]
[PB-503 + LS-505 + RU-509
+ C7000/C7000P/C6000/C70hc]

* For the installation procedure for the RU-506/508/509, see the RU-506/508/509 installation manual.

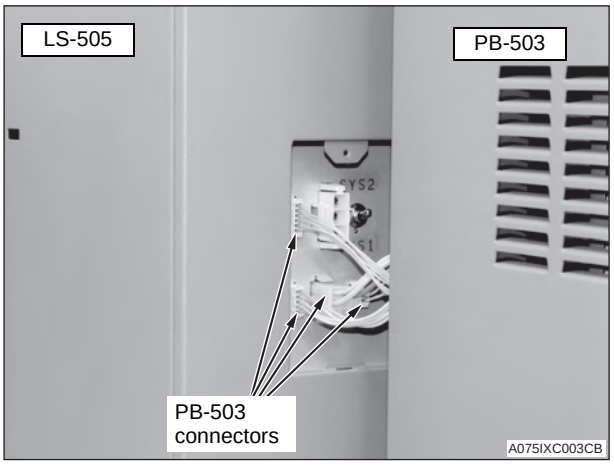
1. Turn the machine's Sub and Main power switches OFF, and unplug the power cord.
2. Install the Installation plate 1, the Installation plate 2, the Installation plate 3, and the Installation plate 5 on the left side of the LS-505 as below. (TP screw M4x6: 8 pcs.)



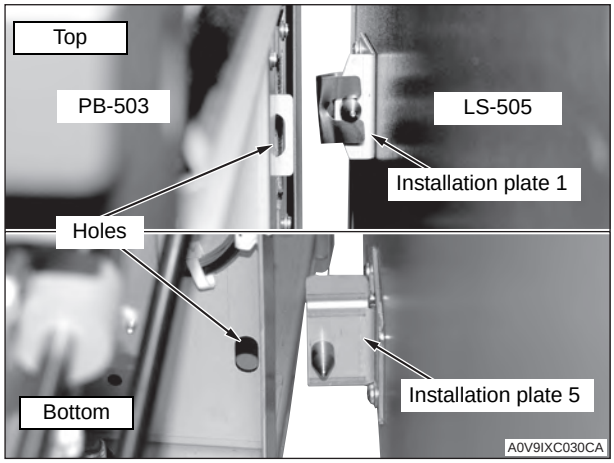
3. Remove the connector cover on the left side of the LS-505 (1 screw).



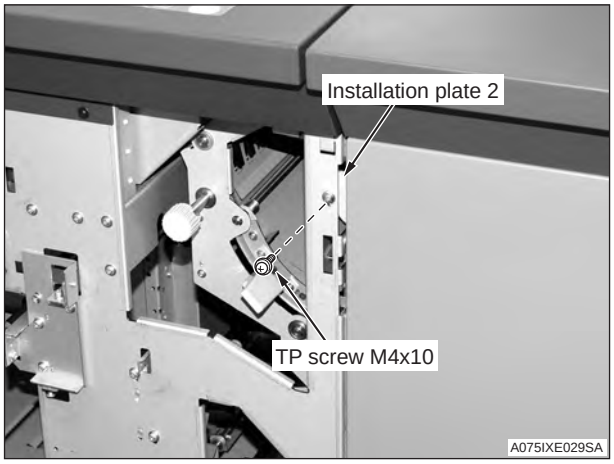
4. Install the PB-503 to the LS-505.
   (1) Connect the four connector jacks of the PB-503 to the connector plugs on the LS-505.



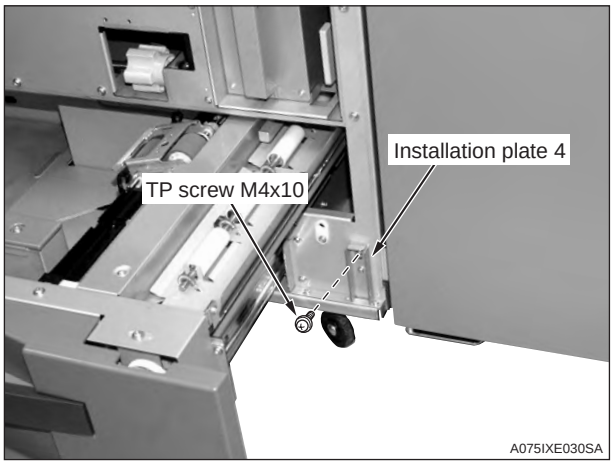
   (2) Align the top hole with the Installation plate 1, and the bottom hole with the Installation plate 5, and slide them to the back.



   (3) Secure the PB-503 onto the Installation plate 2 with a screw. (TP screw M4x10: 1 pc.)

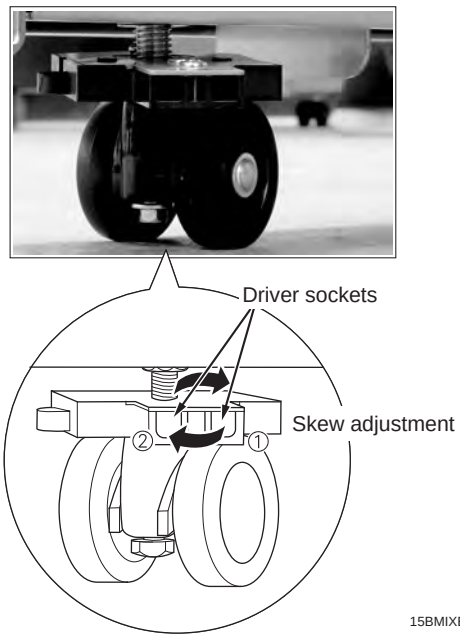


   (4) Pull out the cover tray, and install the Installation plate 4. (TP screw M4x10: 1pc.)



Note:

In case those screw holes heights do not match to fix the installation plate 2 and the installation plate 4 by screw, adjust the height of PB-503 casters (4 parts) to mach those screw holes.
Every caster has ratchet mechanism.
It goes up with reciprocating the driver into the whole 1, and it goes down with reciprocating the driver into the whole 2.
Be sure not to go it up too much, otherwise the bolt would come off. (max. ±5mm)
(Be sure the caster is contacting installation surface, otherwise the ratchet will not work.)
After the adjustment, be sure to put the ratchet part into the machine.
(Insert the driver into the hole on the left hand and rotate it to the left. The height is changed by rotating without inserting the driver.)

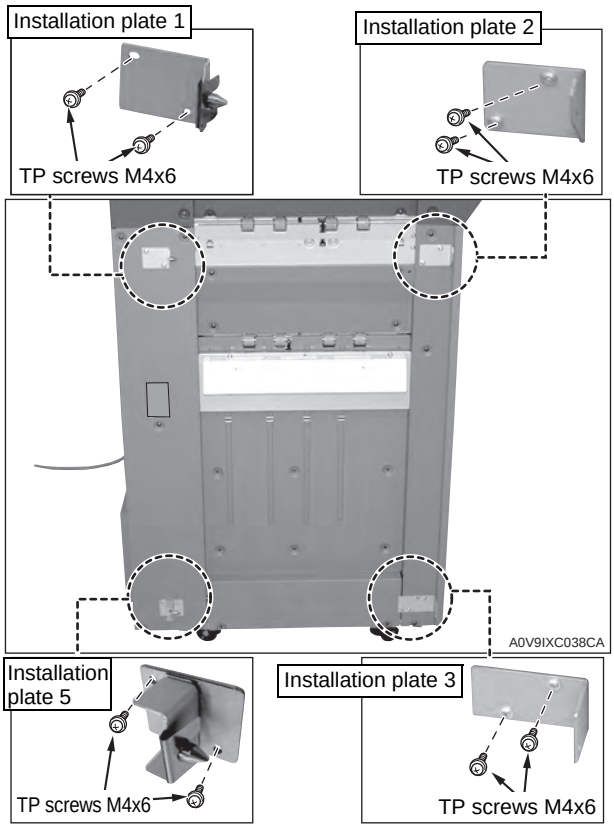


5. Perform the operations described in "V.Common operations after installing PB-503", page 16 to 19.

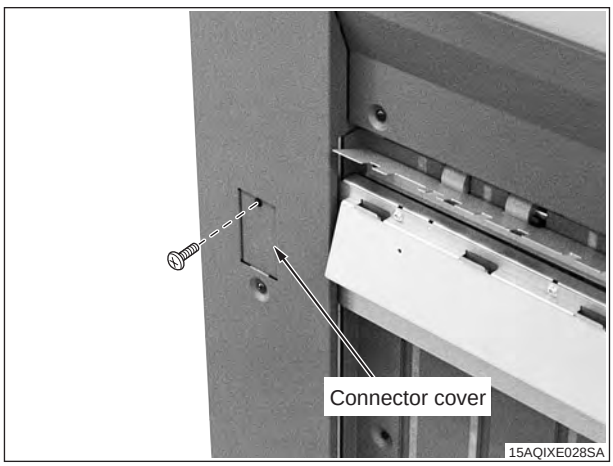
Installation procedure for
[PB-503 + FD-503 + RU-506
+MFP 120ppm(105ppm-2) series]
[PB-503 + FD-503 + RU-508 + EF-101 + C8000]
[PB-503 + FD-503 + RU-509
+C7000/C7000P/C6000/C70hc]

* For the installation procedure for the RU-506/508/509, see the RU-506/508/509 installation manual.

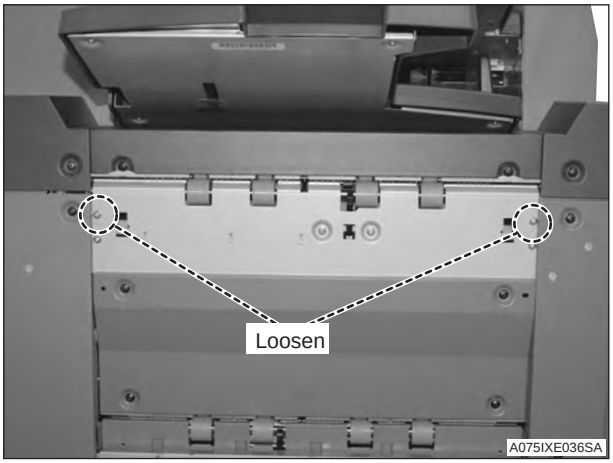
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate 1, the Installation plate 2, the Installation plate 3, and the Installation plate 5 on the left side of the FD-503 as below. (TP screw M4x6: 8 pcs.)



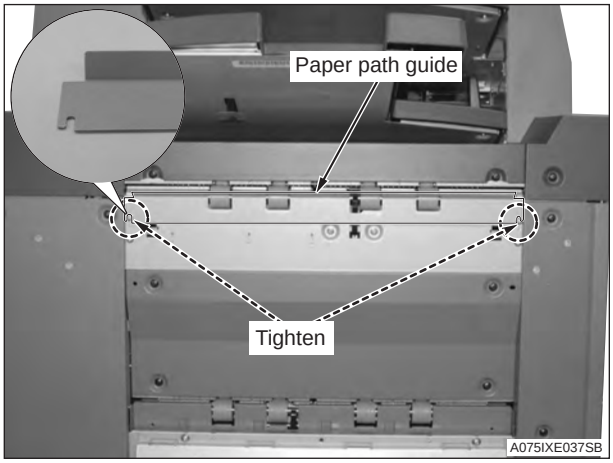
3. Remove the connector cover on the left side of the FD-503 (1 screw).



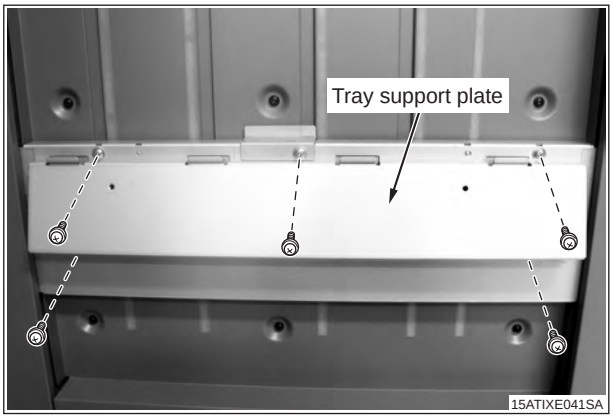
4. Loosen two screws on the Paper path of the FD-503.



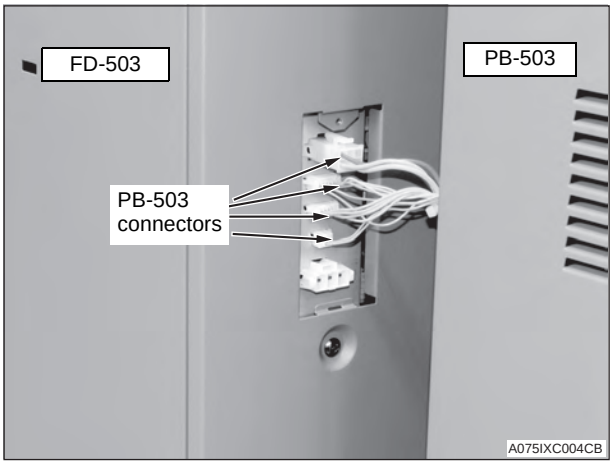
5. Hook the Paper path guide with the loosened screws, and secure it with the screws.



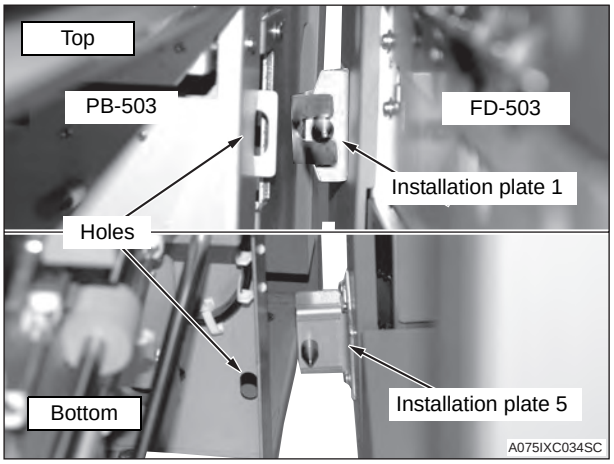
6. Remove the tray support plate (5 screws).



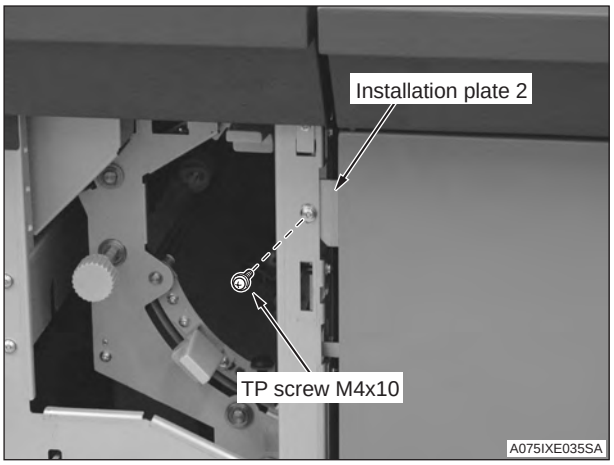
7. Install the PB-503 to the FD-503.
   (1) Connect the four connector jacks of the PB-503 to the connector plugs on the FD-503.



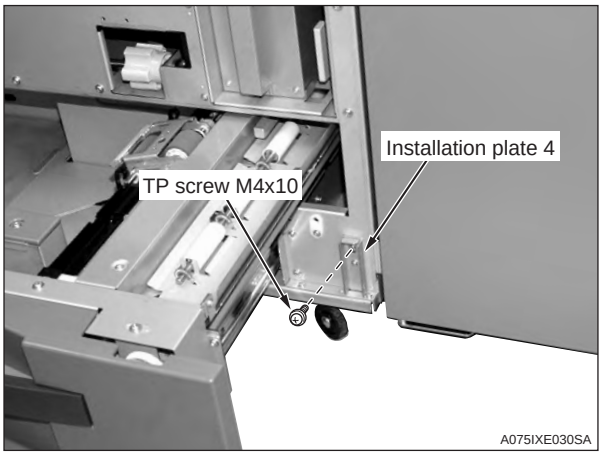
   (2) Align the top hole with the Installation plate 1, and the bottom hole with the Installation plate 5, and slide them to the back.



   (3) Secure the PB-503 onto the Installation plate 2 with a screw. (TP screw M4x10: 1 pc.)

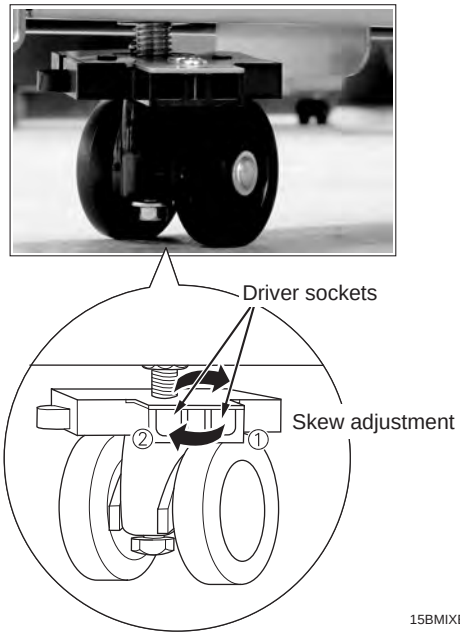


   (4) Pull out the cover tray, and install the Installation plate 4. (TP screw M4x10: 1pc.)



Note:

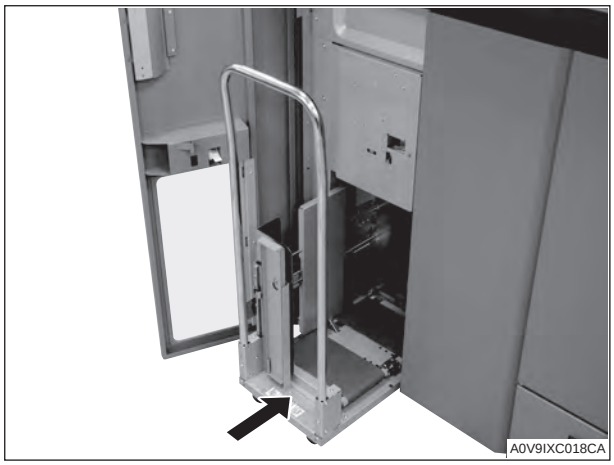
In case those screw holes heights do not match to fix the installation plate 2 and the installation plate 4 by screw, adjust the height of PB-503 casters (4 parts) to mach those screw holes.
Every caster has ratchet mechanism.
It goes up with reciprocating the driver into the whole 1, and it goes down with reciprocating the driver into the whole 2.
Be sure not to go it up too much, otherwise the bolt would come off. (max. ±5mm)
(Be sure the caster is contacting installation surface, otherwise the ratchet will not work.)
After the adjustment, be sure to put the ratchet part into the machine.
(Insert the driver into the hole on the left hand and rotate it to the left. The height is changed by rotating without inserting the driver.)



8. Perform the operations described in the following "V.Common operations after installing PB-503".

V. Common operations after installing PB-503

1. Set the handcart.



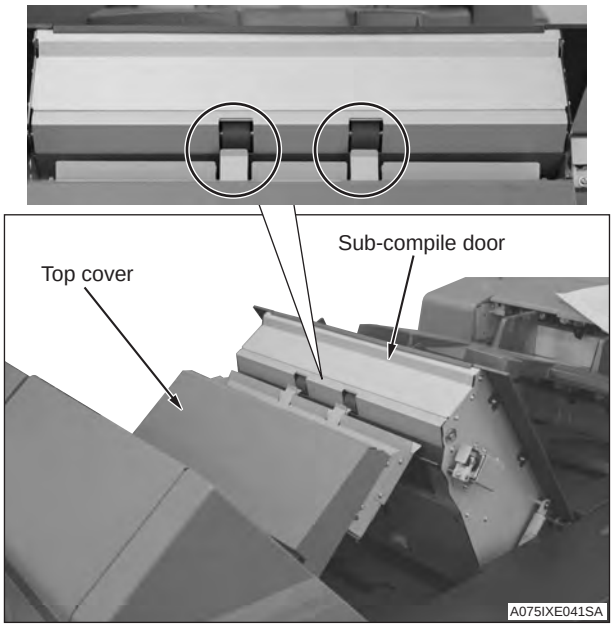
2. Check if the sub-compile door is interfering with the top door.

***Confirmation method**

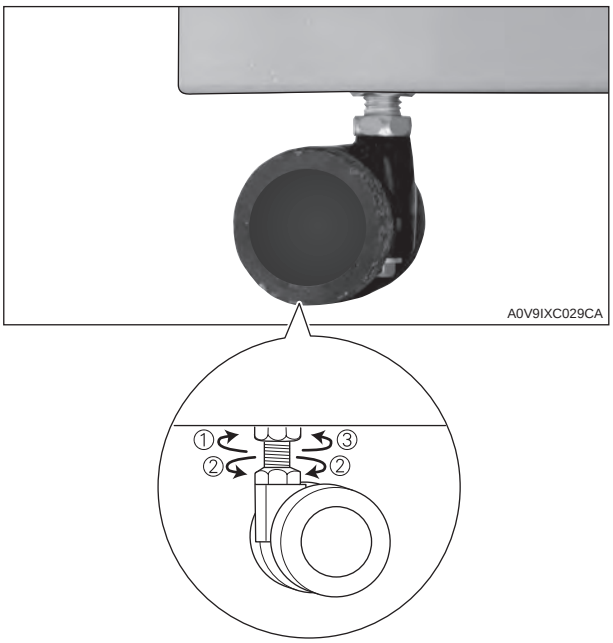
(1) Open the sub-compile door straight up.
(2) Open the top door and align it with the rollers of the sub-compile door.
(3) Slide the top door back and forth to make sure the areas indicated by the circles in the figure are positioned correctly, and the top door does not interfere with the sub-compile door.

***Adjustment method**

Adjust the height of the casters on the PB-503 main unit to correct the slant of the main unit to eliminate any interference.

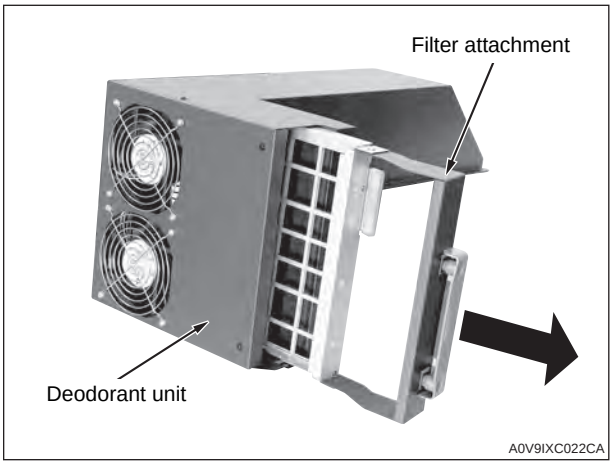


3. If 2 casters of the book receptacle are not on the ground, adjust them.

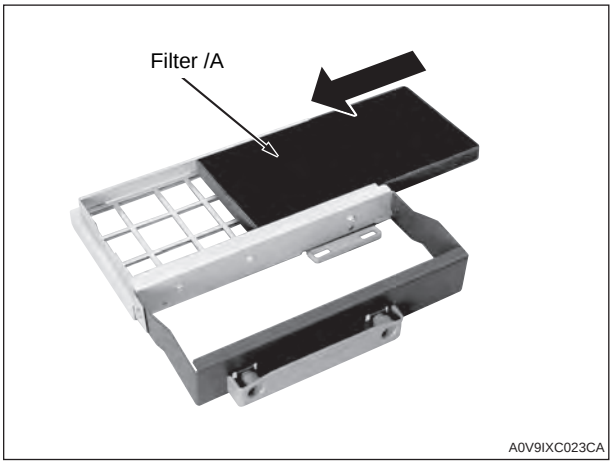


4. Install the filter /A and the filter /B to the deodorant unit.

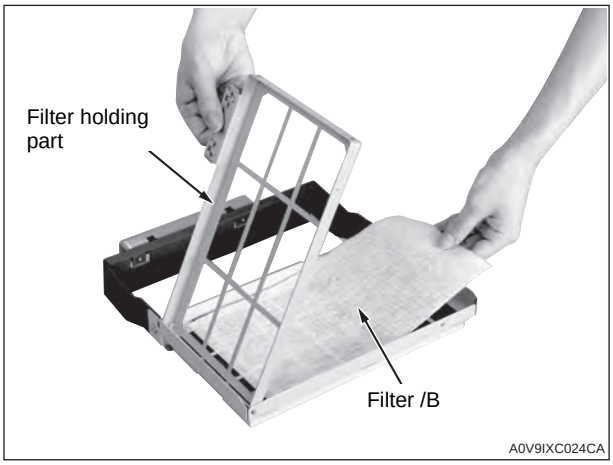
(1) Remove the filter attachment from the deodorant unit.



(2) Install the filter /A.

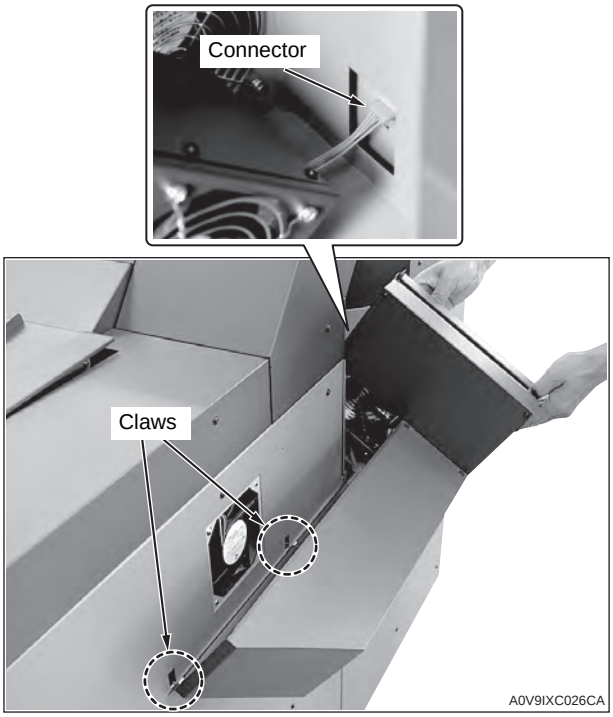


(3) Open the filter holding part, set 2 filters /B, and then close the filter holding part

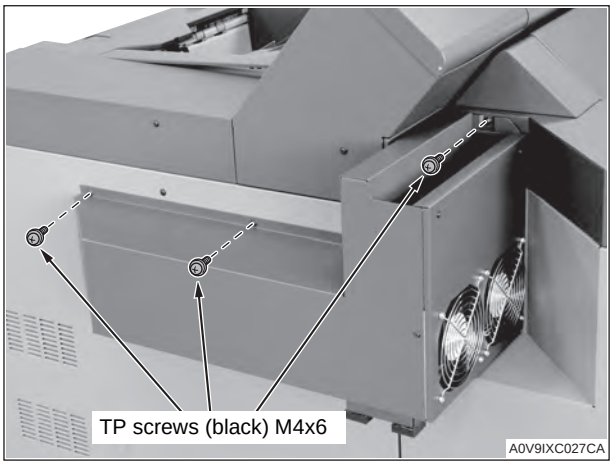


5. Install the deodorant unit to PB-503.

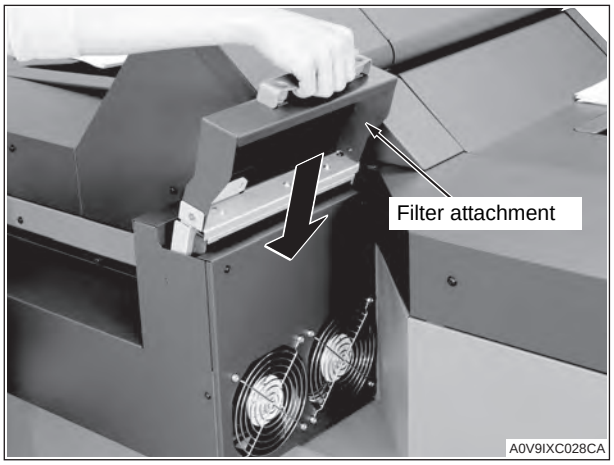
(1) Insert 2 claws of the deodorant unit into the holes of PB-503 and connect the connector of the deodorant unit.



(2) Secure them with the screws. (TP screw (black) M4x6: 3 pcs.)



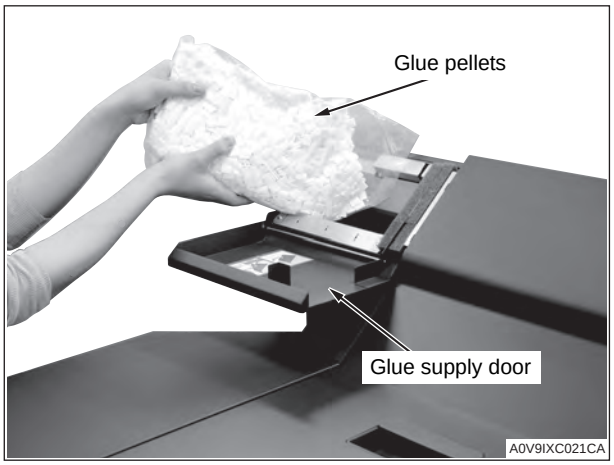
(3) Set the filter attachment to the deodorant unit.



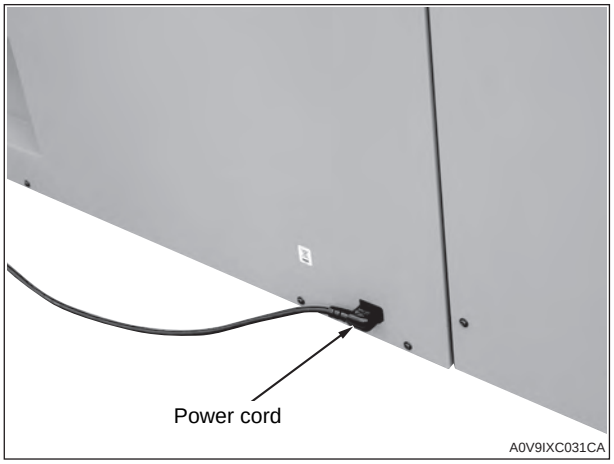
6. Open the glue supply door, and put glue pellets in.

Note:

Unbind glue pellets keeping in a plastic bag, and then put them in.

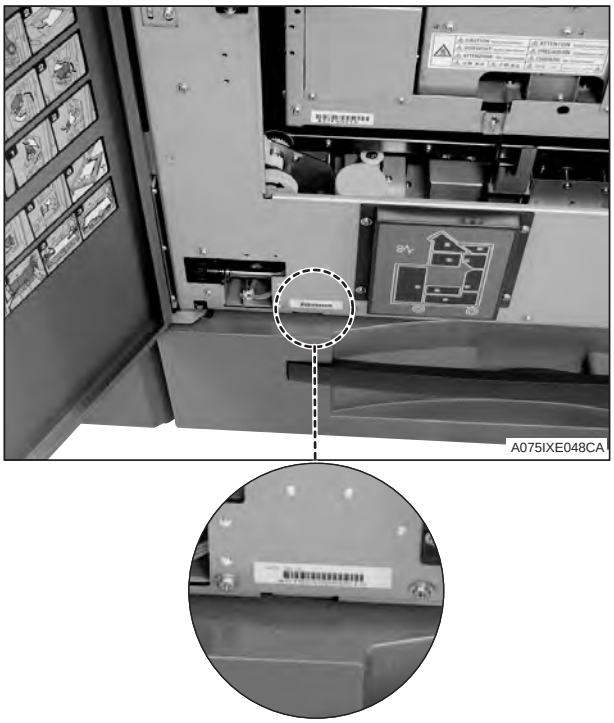


7. Plug in the power cord.



VI.Serial Number Registration

Register the serial number of the PB-503 that has been installed to the machine.
The location of the serial number is shown in the figure below.



[MFP 120ppm(105ppm-2) Series]

	Step
1.	Plug the power cord into the outlet and turn ON the Main power switch.
2.	Enter Service mode. **Note:** Refer to procedures in the Service Manual to enter into the Service Mode.
3.	Touch “System Setting”.
4.	Touch “M/C Serial Number Setting”.
5.	Touch “Finisher“ to display the Serial number setting screen. (Select setting number key.)
6.	Enter the serial number of the PB-503 and touch “OK”. (Use “Shift” to switch between upper case letters and lower case letters.)
7.	Touch “OK” on the serial number list screen.

[C8000/C7000/C7000P/C6000/C70hc]

	Step
1.	Plug the power cord into the outlet and turn ON the Main power switch.
2.	Enter Service mode. **Note:** Refer to procedures in the Service Manual to enter into the Service Mode.
3.	Touch “System Setting”.
4.	Touch “Serial Number Setting”.
5.	Touch “Finisher“ to display the Serial number setting screen. (Select setting number key.)
6.	Enter the serial number of the PB-503 and touch “OK”. (Use “Shift” to switch between upper case letters and lower case letters.)
7.	Touch the "Return" key and then touch the “Close” key.

VII. Importing Adjustment Data

Import the factory adjustment data of the PB-503 to the machine memory.
If a PB-503 and other optional units are connected, they can recover the standard data at the same time.

Note:
Be sure to import the factory adjustment data of the PB-503 to the machine memory.

[MFP 120ppm(105ppm-2) Series]

	Step
1.	On the Service mode menu screen, touch the “Finisher Adjustment” key.
2.	Touch the “Recall Standard Data” key.
3.	Touch the “Factory Initial Data” key on the recall standard data screen.
4.	"Completed in recalling standard data." appears on the screen.

[C8000/C7000/C7000P/C6000/C70hc]

	Step
1.	On the Service mode menu screen, touch the “Finisher Adjustment” key.
2.	Touch the “Recall Standard Data” key.
3.	Touch the "Factory Initial Data" on the recall standard data screen and then touch the "Yes".
4.	Touch the "Return" key and then touch the “Close” key.

VIII. Installation Confirmation

Conduct an operating check to determine that the folding unit full detection is working.

Note:

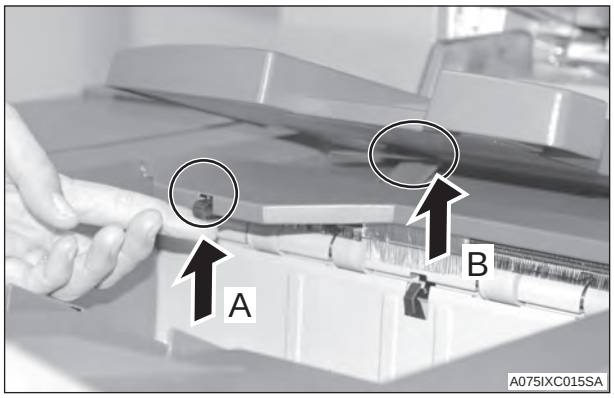
Only confirm if the machine combination is included PB-503 and FD-503.

***Confirmation method**

1. Press the switch on the PB (A in the figure) to see if the switch on the FD (B in the figure) turns ON.
2. Turn the main unit's power ON, and press the switch on the PB (A in the figure) to see if the message “Perfect Binder Sub Tray is full Please remove paper.” appears on the control panel.

***Adjustment method**

If the FD full detection does not turn ON, adjust the casters of the PB-503 main unit and raise it to activate the FD full detection.



IX. Confirmation of Paper Output

1. When PF-702/703 is installed
   Check the centering of the trays 3, 4, and 5. (Trays 6, 7, and 8 in tandem as well)
   When PF-704/705 is installed
   Check the centering of the trays 4, 5, and 6. (Trays 7,8, and 9 in tandem as well)
   When PF-602 is installed
   Check the centering of the trays 4 and 5.

[MFP 120ppm(105ppm-2) Series]

	Step
1.	Set the software DipSw 12-3-1 (Printer centering adjustment: Disable).
2.	Print out from each tray and check the centering without auto adjustment. When the centering over 3.5mm occurs on all the trays of PF against the trays of the main body, adjust the position of PF positioning plate /front. (The 2nd PF as well) **Note:** • See the Service Manual for adjustment method. • If the centering occurs on each tray, adjust it by each tray.
3.	Set back the software DipSw 12-3-0.
4.	Check the centering of each tray. Standard value: within 1.5mm

[C8000/C7000/C7000P/C6000/C70hc]

	Step
1.	Set the software DipSw 26-4-1 (Printer centering adjustment: Disable).
2.	Print out from each tray and check the centering without auto adjustment. When the centering over 3.5mm occurs on all the trays of PF against the trays of the main body, adjust the position of PF positioning plate /front. (The 2nd PF as well) **Note:** • See the Service Manual for adjustment method. • If the centering occurs on each tray, adjust it by each tray.
3.	Set back the software DipSw 26-4-0.
4.	Check the centering of each tray. Standard value: within 1.5mm

1. When the error occurs on paper output from PB
   Perform the adjustment of PB.

Note:

See the Service Manual for adjustment method.

X. Adjustment Data Backup

If the PB-503 adjustment data is changed, back up the machine PB-503 data to the PB-503 memory.
If a PB-503 and other optional units are connected, the data will be backed up to both memories at the same time.

[MFP 120ppm(105ppm-2) Series]

	Step
1.	On the Service mode menu screen, touch “Machine Condition”.
2.	Touch “I/O Check Mode”.
3.	Enter “9” and “0” using the quantity setting buttons. Make sure that <090-00> appears on the message display.
4.	Press the [Start] key. Make sure that <OUT:FIN> appears on the message display after the adjustment.
5.	Touch "Return", then touch "Exit".

[C8000/C7000/C7000P/C6000/C70hc]

	Step
1.	On the Service mode menu screen, touch “State Confirmation”.
2.	Touch “I/O Check Mode”.
3.	Enter “9” and “0” using the quantity setting buttons. Make sure that <90-00> appears on the message display.
4.	Press the [Start] key. Make sure that <OUT:FIN> appears on the message display after the adjustment.
5.	Touch "Return", then touch "Exit".